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Publications and Talks - Dave Detlefs

david.detlefs@east.sun.com

Here is a list of the publications that I have authored or co-authored. They are ordered by date, with most recent first. Selected Talks are listed below.

Publications

1. **Compile-Time Concurrent Marking Write Barrier Removal**
   V. Krishna Nandivada and David Detlefs.
   To Appear In 2005 International Symposium on Code Generation and Optimization (CGO), March, 2005. (PDF)

2. **Garbage-First Garbage Collection.**
   David Detlefs, Christine Flood, Steven Heller, and Tony Printezis.
   Proceedings of The 2004 International Symposium on Memory Management. (PDF)

3. **DCAS is not a Silver Bullet for Nonblocking Algorithm Design.**
   Simon Doherty, David L. Detlefs, Lindsay Groves, Christine H. Flood, Victor Luchangco, Paul A. Martin, Mark Moir, Nir Shavit, and Guy L. Steele, Jr.
   Proceedings of the Sixteenth ACM Symposium on Parallelism in Algorithms and Architechtures, June, 2004. (PDF)

4. **A Hard Look at Hard Real-Time Garbage Collection.**
   David Detlefs.
   Seventh IEEE International Symposium on Object-Oriented Real-Time Distributed Computing (ISORC'04). (PDF)

5. **Simplify: A Theorem Prover for Program Checking.**
   David L. Detlefs, Greg Nelson, and James B. Saxe.
   HP Labs Technical Report HPL-2003-148. (Postscript, PDF)

6. **Concurrent Remembered Set Refinement in Generational Garbage Collection**
   David Detlefs, Ross Knippel, William D. Clinger, Matthias Jacob.
   In proceedings of 2002 USENIX Java VM Research and Technology Symposium.
   (PDF, postscript, html)

7. **Lock-Free Reference Counting**
   David L. Detlefs, Paul A. Martin, Mark Moir, Guy L. Steele Jr.
   In proceedings of PODC 2001.
   (postscript)
   Journal version: Distributed Computing 15(4).

8. **Even Better DCAS-Based Concurrent Deques**
   David L. Detlefs, Christine H. Flood, Alexander T. Garthwaite, Paul A. Martin, Nir N. Shavit, and Guy L. Steele Jr.
   In proceedings of DISC2000 (LNCS, Springer-Verlag).
   (postscript)

9. **Parallel Garbage-Collection for Shared Memory Multiprocessors**
   Christine Flood, Dave Detlefs, Nir Shavit, Catherine Zhang.

In 2001 USENIX Java Virtual Machine Research and Technology Sympoium.
(PDF, postscript)

10. **A Generational Mostly-Concurrent Garbage Collector.**
Dave Detlefs and Tony Printezis.
Sun Labs TR-2000-88 (PDF, postscript)
Shorter version appeared in ISMM2000: (PDF, postscript)

11. **DCAS-Based Concurrent Deques.**
Ole Agesen, David L. Detlefs, Christine H. Flood, Alexander T. Garthwaite, Paul A. Martin, Nir N. Shavit, and Guy L. Steele Jr.
In SPAA 2000.
(postscript).

Journal version in Theory of Computing Systems, 35:(3).

12. **The Case for Multiple Compilers.**
David Detlefs and Ole Agesen.
OOPSLA '99 VM Workshop: Simplicity, Performance and Portability in Virtual Machine Design.
Extended Abstract. (PDF, postscript)

13. **An Efficient Meta-lock for Implementing Ubiquitous Synchronization**
Ole Agesen, David Detlefs, Alex Garthwaite, Ross Knippel, Y.S. Ramakrishna, Derek White.
October, 1999.
(Sun Labs TR-99-76, OOPSLA '99 PDF, postscript)

14. **Inlining of Virtual Methods.**
David L. Detlefs and Ole Agesen.
In *Proceedings of the Thirteenth European Conference on Object-Oriented Programming*, Lisbon, Portugal, June, 1999
(Postscript, PDF).

15. **Garbage Collection and Local Variable Type Precision in Java (TM) Virtual Machines.**
Ole Agesen, David L. Detlefs, and J. Eliot B. Moss.
In *Proceedings of the ACM SIGPLAN '98 Conference on Programming Language Design and Implementation*, p. 269-279, ACM SIGSOFT, June, 1998.
(Postscript) .

16. **Finding References in Java™ Stacks.**
Ole Agesen and David Detlefs.
OOPSLA97 Workshop on Garbage Collection and Memory Management, 10/97, Atlanta, GA.
(postscript)

17. **Extended Static Checking.**
David L. Detlefs, K. Rustan M. Leino, Greg Nelson, and James B. Saxe.
SRC Research Report 159. (Postscript, PDF)

18. **Wrestling with Rep Exposure.**
David L. Detlefs, K. Rustan M. Leino, and Greg Nelson.
SRC Research Report 156. (Postscript, PDF)

19. **An Overview of the Extended Static Checking System.**
David L. Detlefs
In *Proceedings of The First Workshop on Formal Methods in Software Practice*, p. 1-9, ACM SIGSOFT, January, 1996.
(Postscript) .

20. **Debugging Storage Management Problems in Garbage-Collected Environments.**
David L. Detlefs and Bill Kalsow.
In *USENIX Conference on Object-Oriented Technologies* Conference Proceedings, Monterey, CA, June 26-29, 1994, pages 69-82.
(Postscript).

21. **Memory Allocation Costs in Large C and C++ Programs.**
David L. Detlefs, Al Dosser, and Ben Zorn.
Software Practice and Experience, 24(6):527–542, June 1994. Also available as University of Colorado at Boulder Tech Report CU-CS-665-92.
(Postscript)

22. **Empirical Evidence for using Garbage Collection in C and C++ Programs.**
David L. Detlefs, Al Dosser, and Benjamin Zorn.
In *Proceedings of 1993 ACM OOPSLA Workship on Garbage Collection,*, September, 1993.
(Postscript).

23. **Safe, Efficient Garbage Collection for C++.**
John R. Ellis and David L. Detlefs.
Research Report 102, Digital Equipment Corporation Systems Research Center, Palo Alto, CA, June 1993.
(Postscript).

24. **Garbage Collection and Run-time Typing as a C++ Library.**
David L. Detlefs.
In *Procedings of the 1992 USENIX C++ Conference*, August 1992, pages 37-56.
(Postscript).

25. **Concurrent, Atomic, Garbage Collection.**
David L. Detlefs.
Ph.D. Thesis; available as Carnegie Mellon School of Computer Science Technical Report CMU-CS-90-177, October 1990.
(Postscript).

26. **Concurrent Garbage Collection for C++.**
David L. Detlefs.
Carnegie Mellon School of Computer Science Technical Report CMU-CS-90-119, May 1990.
(Postscript).

27. **Inheritance of synchronization and recovery properties in Avalon/C++.**
David Detlefs, Maurice Herlihy, and Jeannette Wing.
IEEE Computer, 21(12), December, 1988.

28. **The Avalon/C++ Programming Language (Version 0).**
Maurice Herlihy, Jeannette Wing, David Detlefs, Stewart Clamen, Karen Keitzke, Richard Lerner, and Su-Yuen Ling.
Carnegie Mellon School of Computer Science Technical Report CMU-CS-88-209, December, 1988.

29. **Avalon/C++: C++ Extensions for Transaction-based Programming.** In **The Proceedings of the 1987 USENIX C++ Workshop**
David Detlefs, Maurice Herlihy, Jeannette Wing and Karen Kietzke.
November 1987, pages 451-459.

30. **A Procedure for Automatically Proving the Termination of a Set of Rewrite Rules.**
David Detlefs and Randy Forgaard.
In *The Proceedings of the First International Conference on Rewriting Techniques and Applications*, May, 1985, University of Dijon, France.

External Talks

1. Talk in November 2002 at Fidelity Investments in Boston on **Parallelism and Concurrency in Garbage Collection (version 3).**

2. Talk in July 2002 at USENIX JVM in San Francisco on **Concurrent Remembered Set Refinment in Generational Garbage Collection.**

3. Talk in May 2002 at SAP Labs in Palo Alto on **Parallelism and Concurrency in Garbage Collection (version 2).**

4. Talk in April 2002 at Williams College on **Parallelism and Concurrency in Garbage Collection (version 1).**

5. Talk in March 2000 at Brown University on the **JTech Group's Work on Scalable Old-Gen GC.**

6. Talk in October 1998 at Rice University on work in **Inlining of Virtual Methods.** (tar file)

7. Talk in July 1998 at University of Colorado on work in **JIT optimizations.** (tar file)

8. Presented paper on **An Overview of the Extended Static Checking System** at the First Workshop on Formal Methods in Software Practice, co-located with ISSTA 96, in San Diego, CA, January, 1996.

9. Presented paper on **Debugging Storage Management Problems in Garbage-Collected Heaps** at the USENIX Conference on Object-Oriented Technologies, in Monterey, CA on June 28, 1995. (Also extra figures.)

10. Talk on **Extended Static Checking.** (The talk references two sets of slides showing examples: *Sequence* and *Pivot*.) I gave this talk at CMU, MIT, and Digital's Spitbrook facility (ZKO) in February of 1995.

11. **Empirical Evidence for using Garbage Collection in C and C++ Programs.** Presented talks based on this paper at the 1993 SRC Review and at the 1993 ACM OOPSLA Workshop on Garbage Collection, September, 1993, Washington, DC.

12. **Garbage Collection and Run-time Typing as a C++ Library.** Presented at the 1992 USENIX C++ Conference, August 1992, Portland, OR.

13. **Concurrent, Atomic, Garbage Collection.** Presented short talk at 1990 ACM OOPSLA Workshop on Garbage Collection, October, 1990, Ottowa, CA.

14. **Avalon/C++: C++ Extensions for Transaction-based Programming.** Presented at the 1987 USENIX C++ Workshop, November, 1987, Sante Fe, NM.

15. **A Procedure for Automatically Proving the Termination of a Set of Rewrite Rules.** Presented at the First International Conference on Rewriting Techniques and Applications, May, 1985, University of Dijon, France.